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Prof. Arnold

POLAR RESEARCH QUESTIONNAIRE

Botany (Paleobotany)

IN[illegible]ON ON POLAR February 9, 1960
IN[illegible]S IN THE FIELD OF Botany

INSTITUTION University of Michigan

MEMORANDUM

To: ✓ Professor C. A. Arnold
Professor H. H. Bartlett
Professor D. V. Baxter
Professor F. C. Gustafson
Professor R. J. Lowry
Professor G. A. Sharpe
Professor W. R. Taylor

Last year the NAS Committee on Polar Research undertook a program to study the status and prospects of participation in polar research by U. S. academic institutions. The Committee established the ad hoc University Committee on Polar Research, with the following membership, to study university activities and facilities:

C. A. Barnes, Dept. of Oceanography, University of Washington
W. S. Benninghoff, Dept. of Botany, University of Michigan
J. E. Church, Dept. of Meteorology and Climatology, University of Washington
W. C. Craddock, Dept. of Geology, University of Minnesota
C. T. Elvey, Director, Geophysics Inst., University of Alaska
M. Ewing, Director, Lamont Geological Obs., Columbia University
R. P. Goldthwait, Dept. of Geology, Ohio State University
M. G. Morgan, Thayer School of Engineering, Dartmouth College
R. Revelle, Scripps Inst. of Oceanography, University of California
Athelstan Spilhaus, Dean, Inst. of Technology, University of Minnesota
G. P. Woollard, Dept. of Geology, University of Wisconsin
J. H. Zumberge, Dept. of Geology, University of Michigan; Chairman, UCPR

It became my lot to collect and assemble information on basic research in the biological sciences, and I am now gathering the information for botany here at the University of Michigan. All of the reports for botany I will have to consolidate on one of the forms of the kind enclosed; but I would appreciate information from your experience filled in on the enclosed rough copy. Please do not go to extensive effort to look up past records, etc. Most useful to this report will be titles of projects, names of colleagues and students involved, sources of funds, and your notes on courses and facilities.

I would like to have this returned by February 26 if you can conveniently complete it by then. If you have any questions about the information needed, please telephone me at 2893.

Bill Benninghoff

William S. Benninghoff

Pam. 001.89(*8)
Benninghoff

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Prof. Arnold

JUN 27 1967

POLAR RESEARCH QUESTIONNAIRE

INFORMATION ON POLAR INTERESTS IN THE FIELD OF Botany (Paleobotany) ~~Biology~~

NAME OF INSTITUTION University of Michigan

DEPARTMENT _____

NAME OF PERSON COMPLETING THIS QUESTIONNAIRE _____

OFFICIAL POSITION _____

ADDRESS _____

_____

PART I - MANPOWER

1. Number of experienced professional level* members of your department who are now, or have been in the past, engaged in Polar Research 1

2. Number of qualified professional level members of your department who could participate in Polar Research activities if given the opportunity 2

3. Number of graduate students now working toward a higher degree who have had, or are now engaged in, some form of Polar Research... 0

4. Number of graduate students currectly working on a higher degree in your department..... 1
(This question is asked in order to get some indication of the size of your department.)

PART II - FACILITIES

1. The UCPR is interested in knowing what special facilities your department has for carrying out research problems related to Polar areas. Standard equipment such as microscopes, balances, etc. should not be listed. A

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* Professional level refers to all teaching or non-teaching academic personnel with academic or research appointments of a permanent type.

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special facility would be such items as a cold room laboratory, or special equipment for measuring low temperatures, etc.

Please list these special facilities available to your department.

No special facilities are necessary for arctic research in paleobotany. Personal copy our main asset is our good library facilities.

2. Do your library facilities include:
   a. A separate polar library..... _____
   b. A departmental library which attempts to keep most classical and present polar books. _____
   c. The usual publications relating to polar research and exploration incorporated in the general library V
   d. Very limited polar library facilities.. _____

3. Does your department or institution maintain any collections of materials related to polar areas such as faunal collections, mineral specimens, artifacts, etc..... V

   If so, what are they?

Fossil plant collection from the Arctic Slope of Alaska, made in 1951 and 1953.

PART III - CURRICULUM

1. What courses are offered in your department in which polar problems constitute all or a major portion of the course content?

Descriptive Name of Course	Average Enrollment		By whom Taught	Frequency Given (once a year, every other year, etc.
	No. of grad students	No. of under grad students		

2. Are any courses of the type named above contemplated for the future?

Name of Course	Graduate or Undergraduate?

PART III - CURRICULUM

1. What courses are offered in your department in which polar problems constitute all or a major portion of the course content?

Descriptive Name of Courses	Average Enrollment: No. of grad students	Average Enrollment: No. of under grad students	By whom Taught	Frequency Given (once a year, every other year, etc.

2. Are any courses of the type named above contemplated for the future?

Name of Course — Graduate or Undergraduate?

3. How many theses related to polar areas have been produced by graduate students on the Masters and Ph. D. levels in the past 5 years?

   Masters _____ Ph. D. 1

4. How many graduate students are currently working on Masters or Ph. D. dissertations related to polar areas?

   Masters _____ Ph. D. _____

5. Many graduate students now enrolled have had some sort of previous polar experience. It is the intent of the UCPR to find out how and where such experience is gained. Please check.

   a. IGY experience _____

   b. Government sponsored expeditions _____ (other than IGY)

   c. Privately sponsored expeditions _____

   d. Other (please describe)

PART IV - POLAR RESEARCH ACTIVITIES

1. What research projects related to polar areas are now being carried out by members of your department? For each project give the following:

   a. Name of Project ..... Fossil Flora of Arctic Alaska

   b. Source of funds ..... ONR & AIA

   c. Amount (optional) $5000

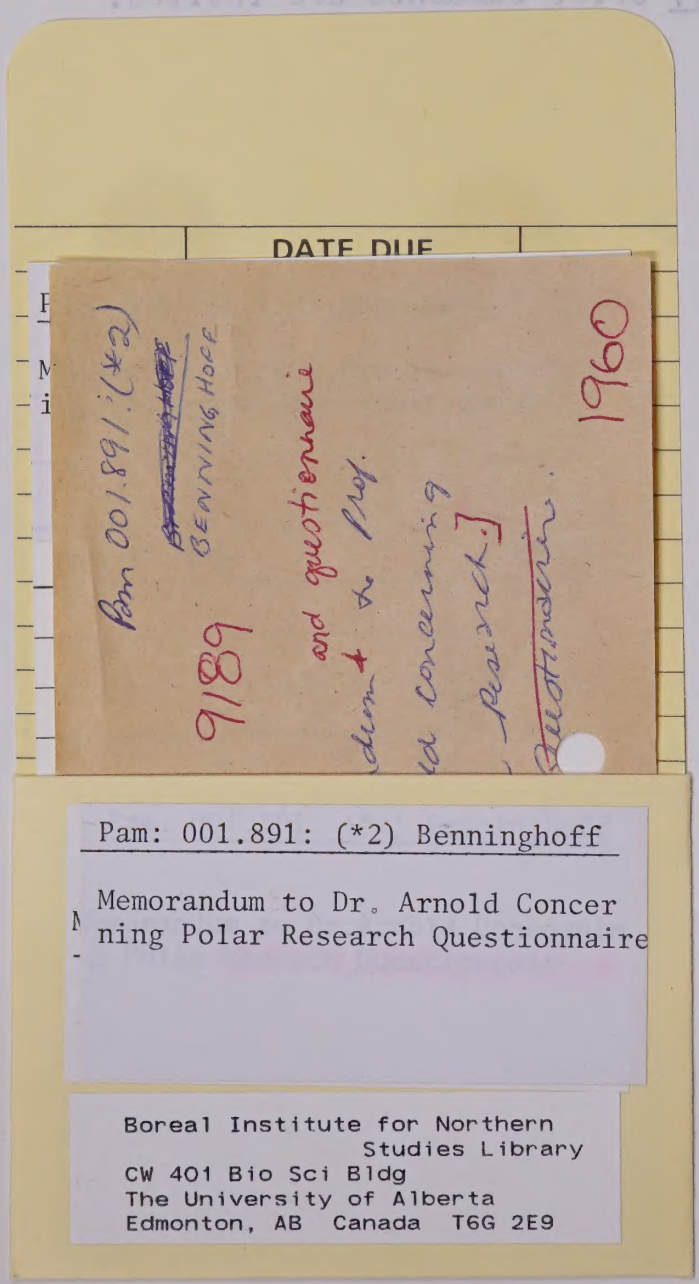
d. Length of time .....

e. Who furnishes logistic support?.... ARL and University of Michigan

The project is finished except for final publication

2. Give the same information for projects completed in the past 5 years.

3. Give same information for projects proposed within the next two years. In addition, please state whether logistic support was satisfactory or not. If not satisfactory, brief comments are invited.



Pam: 001.891: (*2) Benninghoff

Memorandum to Dr. Arnold Concer
ning Polar Research Questionnaire

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CW 401 Bio Sci Bldg
The University of Alberta
Edmonton, AB Canada T6G 2E9

4. List and briefly comment on any deficiences within your field of polar research. (i.e. Research problems that need immediate attention; facilities for doing the work; funds; personnel; logistics.)

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